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PATENT COOPERATION TREAT



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

ternational filing date (day/n 25 June 2003 (25.06) nal classification and IPC	Preliminary 	ication of Transmittal of International Examination Report (Form PCT/IPEA/416) Priority date (day/month/year)	
25 June 2003 (25.06		Priority date (day/month/year)	
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nal classification and IPC	-	25 June 2002 (25.06.2002)	
OKYO ELECTRON L	IMITED	1	
on report has been prepared ling to Article 36.	by this Intern	ational Preliminary Examining Authority	
5 sheets, including	g this cover s	heet.	
		on, claims and/or drawings which have been tions made before this Authority (see Rule	
sheets.			
o the following items:			
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III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV Lack of unity of invention			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;			
VII Certain defects in the international application			
e international application			
Date of co	mpletion of	this report	
l l		uly 2004 (14.07.2004)	
ame and mailing address of the IPEA/JP Authorized officer			
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Form PCT/IPEA/409 (cover sheet) (July 1998)



INTERNATIONAL PRESENTINARY EXAMINATION REPORT

Inte	nal application No.
F	CT/JP2003/008048

I. Basis of the report	
1. With regard to the elements of the international application:*	
the international application as originally filed	
the description:	
Pages .	, as originally filed
pages	
pages	
the claims:	
	, as originally filed, as amended (together with any statement under Article 19
	, as amended (together with any statement under Article 19
pages	, filed with the letter of
the drawings:	
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 With regard to the language, all the elements marked above we the international application was filed, unless otherwise indicated These elements were available or furnished to this Authority in the language of a translation furnished for the purposes of the language of a translation furnished for the purposes of the language of a translation furnished for the purposes of the language of the languag	the following language which is:
the language of publication of the international application	on (under Rule 48 3/h))
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- Carrott out the basis of the seq	
contained in the international application in written form	
filed together with the international application in compu	iter readable form.
furnished subsequently to this Authority in written form.	
furnished subsequently to this Authority in computer rea	dable form.
mediational application as fried has been furnished.	en sequence listing does not go beyond the disclosure in the
The statement that the information recorded in compu- been furnished.	tter readable form is identical to the written sequence listing has
The amendments have resulted in the cancellation of:	
the description, pages	,
the claims, Nos.	
the drawings, sheets/fig	
	dments had not been made, since they have been considered to go nental Box (Rule 70.2(c)).**
Replacement sheets which have been furnished to the receiving	Office in response to an invitation under Article 14 are referred to this report since they do not contain amendments (Rule 70.16
Any replacement sheet containing such amendments must be refe	erred to under item I and annexed to this report.

INTERNATIONAL PREMINARY EXAMINATION REPORT

Claims

Inter	nal application No.
	PCT/JP03/08048

NO

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	1-16	YES	
	Claims		NO	
Inventive step (IS)	Claims		YES	
	Claims	1-16	NO	
Industrial applicability (IA)	Claims	1.16	VEG	

2. Citations and explanations

Claim 1

The subject matter of claim 1 does not involve an inventive step on account of the inventions described in document 1 [US, 5063609, A (APPLIED MATERIALS, INC.), 11 October 1989], document 2 [JP, 2002-110611, A (TEXAS INSTRUMENTS JAPAN LTD.), 12 April 2002], and document 3 [JP, 9-251975, A (SAKAGUCHI DENNETSU K.K.), 22 September 1997] cited in the ISR. The aforesaid document 1 discloses a vapor generator of the same shape as this application's. Disposing a vapor generator so that the axis of a cylinder-like body is horizontal can be appropriately achieved by a person skilled in the art.

Claim 2

The subject matter of claim 2 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and document 4 [JP, 2000-91288, A (PUREX CO., LTD.), 31 March 2000] and document 5 [JP, 2001-252550, A (YOKOGAWA ELECTRIC CORPORATION), 18 September 2001] cited in the ISR. The aforesaid documents 4 and 5 disclose constituting a device with fluororesin.

Claim 3

The subject matter of claim 3 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and document 6 [JP, 9-327669, A (IBIDEN CO., LTD.), 22 December 1997] cited in the ISR. The aforesaid document 6 suggests, in relation to improving heat conduction efficiency, a material with a higher thermal conductivity than resin.

Claim 4

The subject matter of claim 4 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and 6 and document 7 [JP, 9-199472, A (KOMATSU ELECTRONICS K.K.), 31 July 1997] cited in the ISR. The aforesaid document 7 suggests a plate consisting of a metal material covered with resin.

Claim 5

The subject matter of claim 5 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3. The aforesaid document 1 describes a shell that limits tank deformation. Constituting a heater so that a shell is attached can be appropriately achieved by a person skilled in the art.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

Claim 6

The subject matter of claim 6 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and 6. Providing a heater in two locations can be appropriately achieved by a person skilled in the art.

Claim 7

The subject matter of claim 7 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and 6 and 7. The aforesaid document 7 discloses a plate consisting of a metal material covered with resin.

Claim 8

The subject matter of claim 8 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3. Positioning the upper edge of a heater's heat conduction block at essentially the same height as the height set for the surface of pure water in a tank can be appropriately achieved by a person skilled in the art.

Claim 9

The subject matter of claim 9 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and document 8 [Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 238/1984 (Laid-open No. 128733/1984) (NEC CORPORATION), 30 August 1984] cited in the ISR. The aforesaid document 8 discloses a piping constitution that is the same as this application's invention.

Claim 10

The subject matter of claim 10 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and document 9 [JP, 10-55991, A (HITACHI, LTD.), 24 February 1998] cited in the ISR. The aforesaid document 9 discloses providing a baffle in a semiconductor device manufacturing process.

Claim 11

The subject matter of claim 11 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and 9. A constitution wherein an opening position in a baffle is not covered can be appropriately achieved by a person skilled in the art.

Claim 12

The subject matter of claim 12 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and document 10 [US, 5520743, A (TOKYO ELECTRON K.K.), 31 August 1993] cited in the ISR. The aforesaid document 10 discloses a seal member for a cylindrical container. Pushing and submerging a seal member using a shell, etc. and forming an air- and water-tight seal can be appropriately achieved by a person skilled in the art.

Claim 13

The subject matter of claim 13 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3 and 10. Constituting matters so that a cylindrical body and a plate-like body do not touch one another can be appropriately achieved by a person skilled in the art.

Claim 14

The subject matter of claim 14 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3. Constituting matters so that the space inside a tank has an essentially cylindrical shape with its center axis oriented horizontally can be appropriately achieved by a person skilled in the art.

INTERNATIONAL PREMINARY EXAMINATION REPORT

Supp	lemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of Box V:

Claim 15

The subject matter of claim 15 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3. Constituting matters so that a tank's shape is like that of the present application's invention can be appropriately achieved by a person skilled in the art.

Claim 16

The subject matter of claim 16 does not involve an inventive step on account of the inventions described in the aforesaid documents 1~3. The aforesaid document 2 discloses processing a substrate using a processing fluid that contains ozone.